

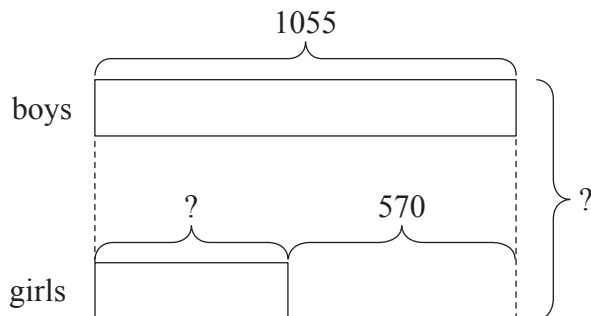
Addition and Subtraction within 10 000

2-step Word Problems

Example 1

At a carnival, there were 1055 boys.
There were 570 more boys than girls.
How many children were there altogether?

Solution:



Since there were 570 more boys than girls, girls would be 570 fewer than boys. Therefore, the models are drawn as shown.

First, find the number of girls:

$$1055 - 570 = 485$$

There were 485 girls.

Then, find the total number of children:

$$\text{boys} \rightarrow 1055$$

$$\text{girls} \rightarrow 485$$

$$1055 + 485 = 1540$$

There were 1540 children altogether.

Working

First Step:

$$\begin{array}{r} 0 \quad 9 \quad 1 \\ 1055 \\ - 570 \\ \hline 485 \end{array}$$

Second Step:

$$\begin{array}{r} 1 \quad 1 \\ 1055 \\ + 485 \\ \hline 1540 \end{array}$$

Adapted:

Conquer Model Drawing for Lower Primary Levels

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Reproducible for home/classroom use only.

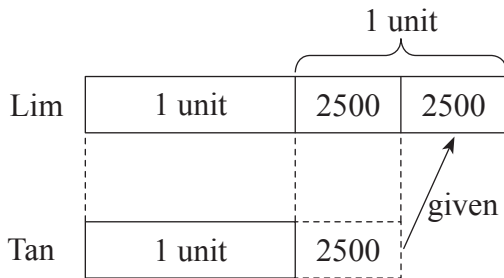
STRICTLY NOT FOR SALE.

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Example 2

Mr Tan and Mr Lim shared a basket of durians equally.
 If Mr Tan gave 2500 durians to Mr Lim, Mr Lim would have twice as many durians as Mr Tan.
 How many durians did each of them have?

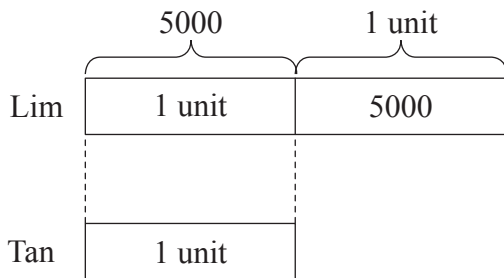
Solution:



If Mr Tan did not give 2500 durians to Mr Lim, each would have 1 unit and 2500 durians. Therefore, the models are drawn as shown.

First, we find the number of durians for 1 unit after Mr Tan gave 2500 durians to Mr Lim:

$$2500 + 2500 = 5000$$



1 unit \rightarrow 5000 durians

Now, we can find the number of durians each of them had.

Each had:

$$1 \text{ unit} + 2500 \rightarrow 5000 + 2500 = 7500$$

Each of them had 7500 durians.

Working

First Step:

$$\begin{array}{r} ^1 \\ 2\ 5\ 0\ 0 \\ +\ 2\ 5\ 0\ 0 \\ \hline 5\ 0\ 0\ 0 \end{array}$$

Second Step:

$$\begin{array}{r} 5\ 0\ 0\ 0 \\ +\ 2\ 5\ 0\ 0 \\ \hline 7\ 5\ 0\ 0 \end{array}$$

Solve the following word problems using models.

Working

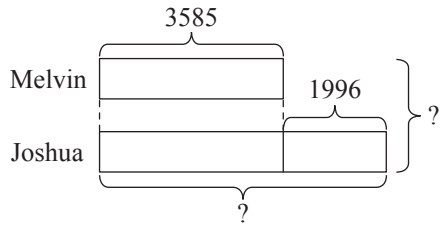
- 1 Melvin baked 3585 cakes.
Joshua baked 1996 more cakes than Melvin.
How many cakes did they bake altogether?

- 2 May had 1575 pegs.
She had 980 more pegs than Jane.
How many pegs did they have altogether?

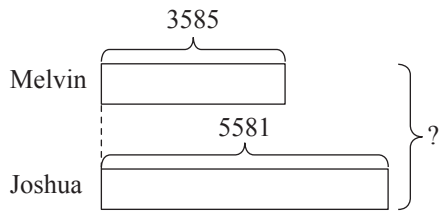
Solutions:

Addition and Subtraction within 10 000

1.

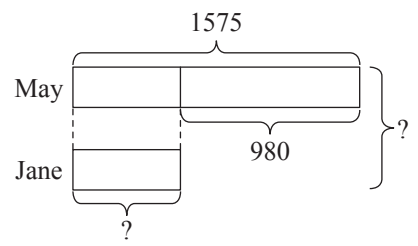


First, we find the number of cakes Joshua baked:
 $3585 + 1996 = 5581$
Next, we find the number of cakes they baked altogether:

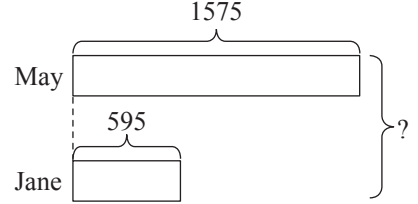


$3585 + 5581 = 9166$
They baked 9166 cakes altogether.

2.



First, we find the number of pegs Jane had:
 $1575 - 980 = 595$
Next, we find the number of pegs they had altogether:



$1575 + 595 = 2170$
They had 2170 pegs altogether.